

1/12

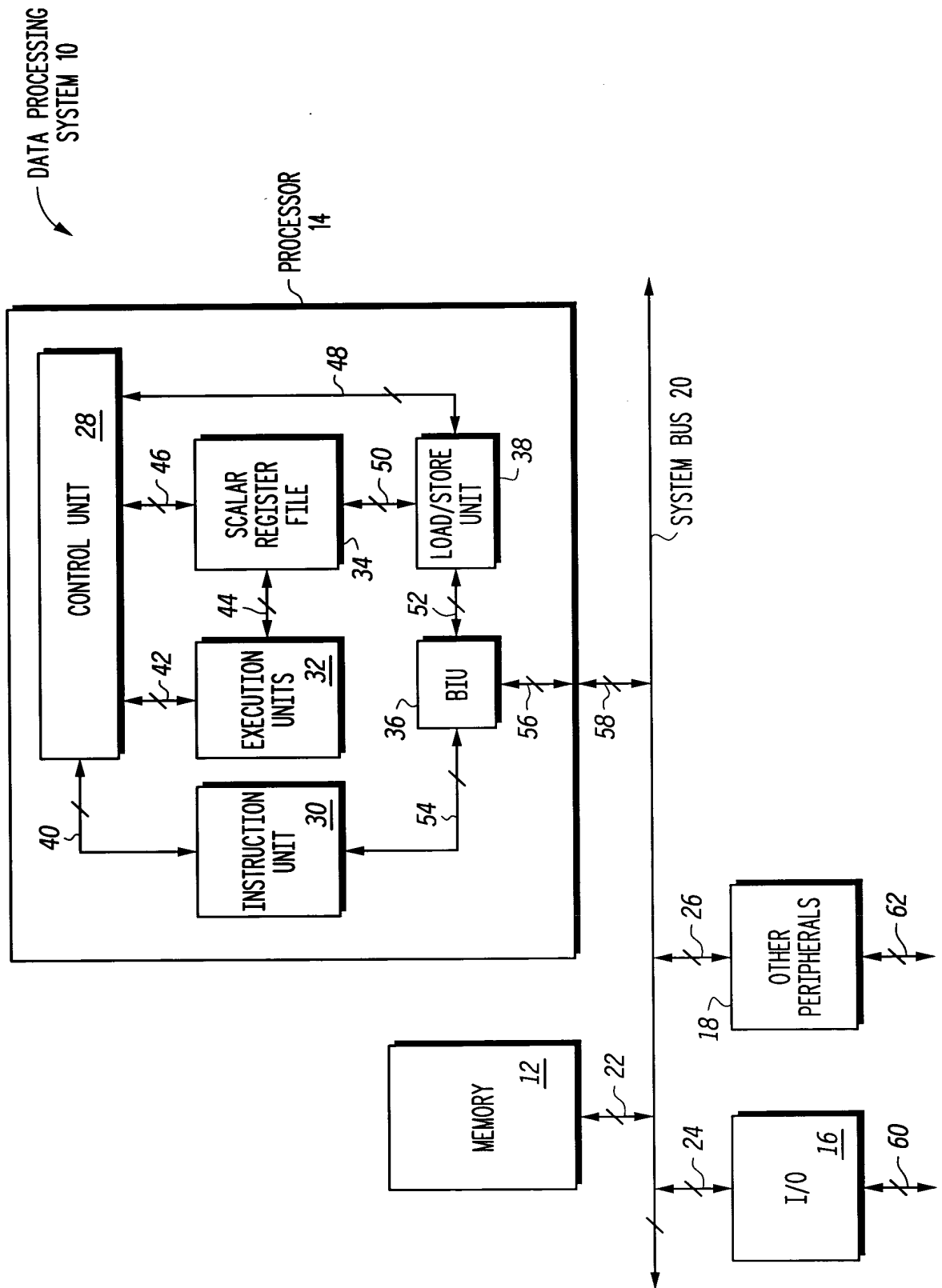


FIG. 1

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2/12

lvex.[s/u].[ms].[ds] rD, rA, rB

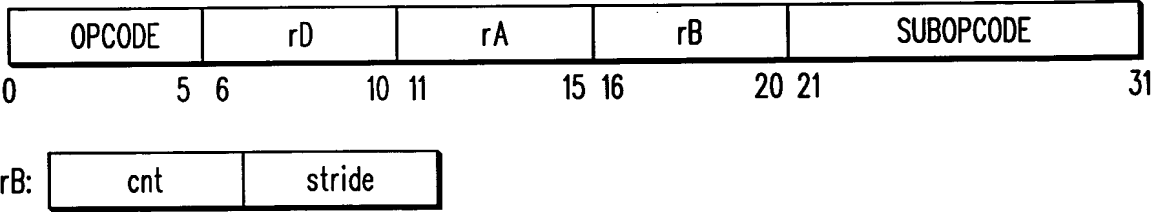


FIG. 2

lvex.[s/u].[ms].[ds] rD, rA, cnt, stride

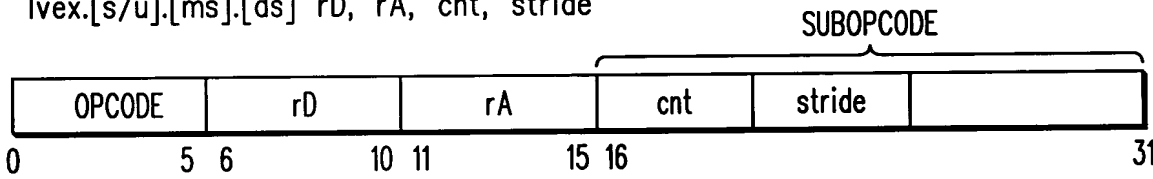


FIG. 3

lmvex.[s/u].[ms].[ds] rD, rA, rB

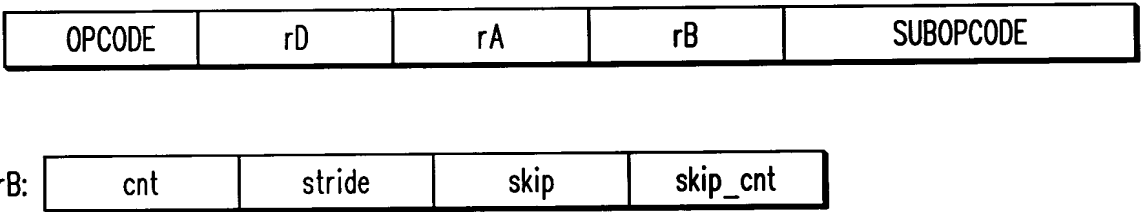


FIG. 4

lmvex.[s/u].[ms].[ds] rD, rA, cnt, stride, skip, skip_cnt

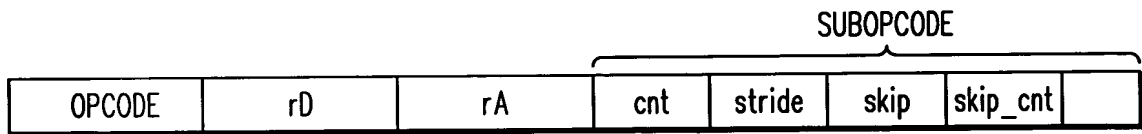


FIG. 5

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3/12

lmvex2.[s/u].[ms].[ds] rD, rA, rB



FIG. 6

lstrmvex.[s/u].[ms].[ds] rD, rA, rB



FIG. 7

stvex.[s/u].[ms].[ss].[h/l] rS, rA, rB

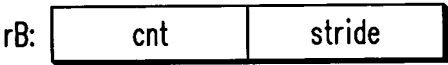


FIG. 8

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4/12

stmvex.[s/u].[ms].[ss].[h/l] rS, rA, rB



FIG. 9

stmvex2.[s/u].[ms].[ss].[h/l] rS, rA, rB

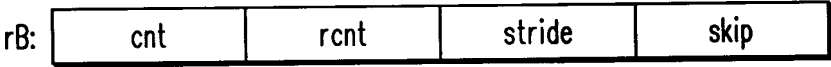


FIG. 10

ststrmvex.[s/u].[ms].[ss].[h/l] rS, rA, rB

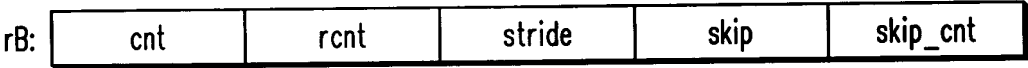
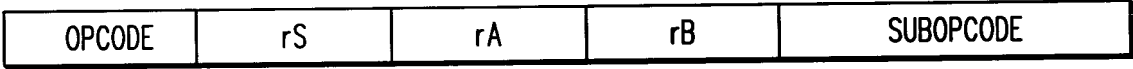


FIG. 11

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5/12

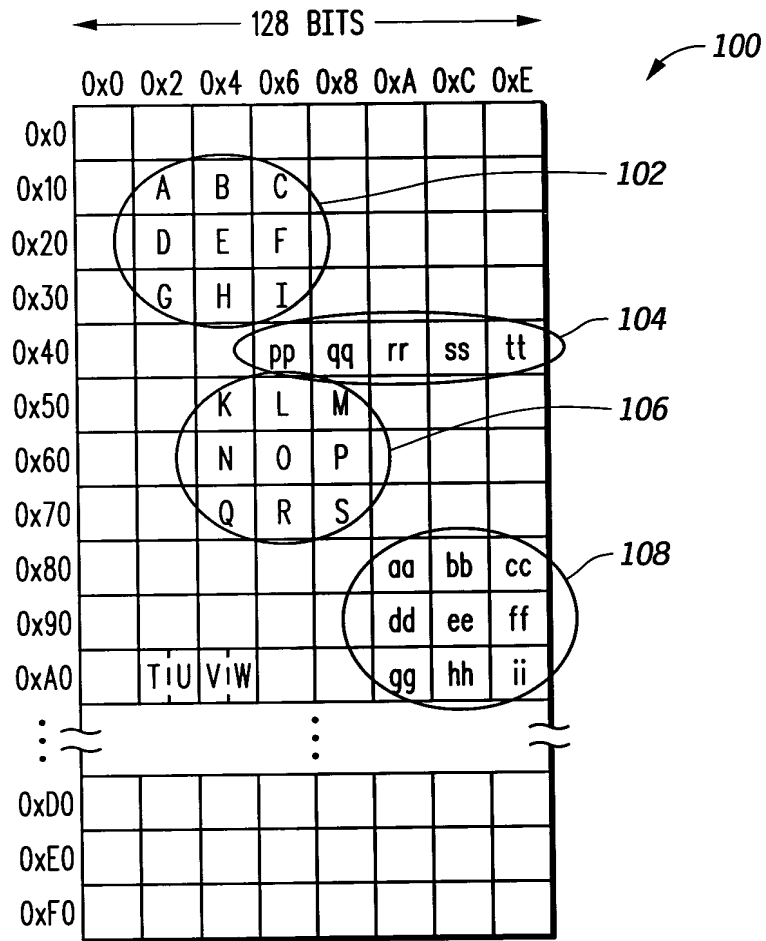


FIG. 12

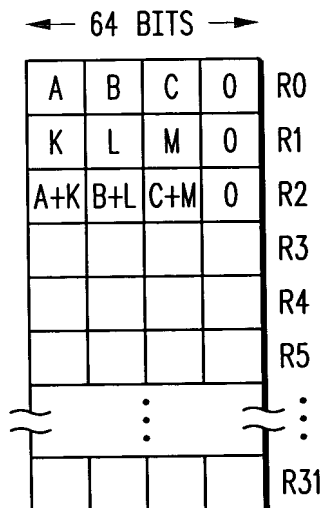


FIG. 13

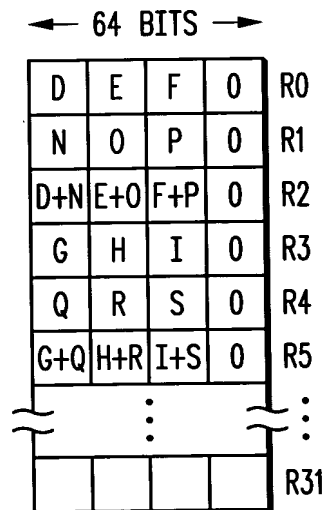


FIG. 14

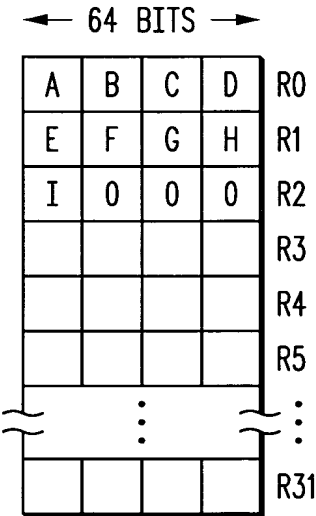


FIG. 15

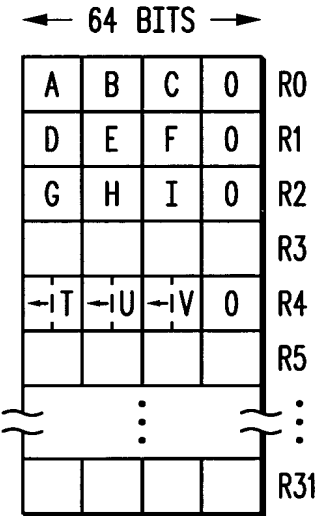


FIG. 16

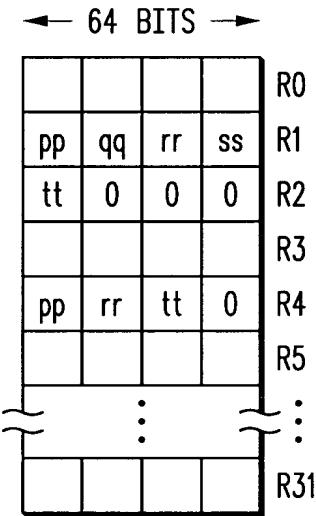


FIG. 17

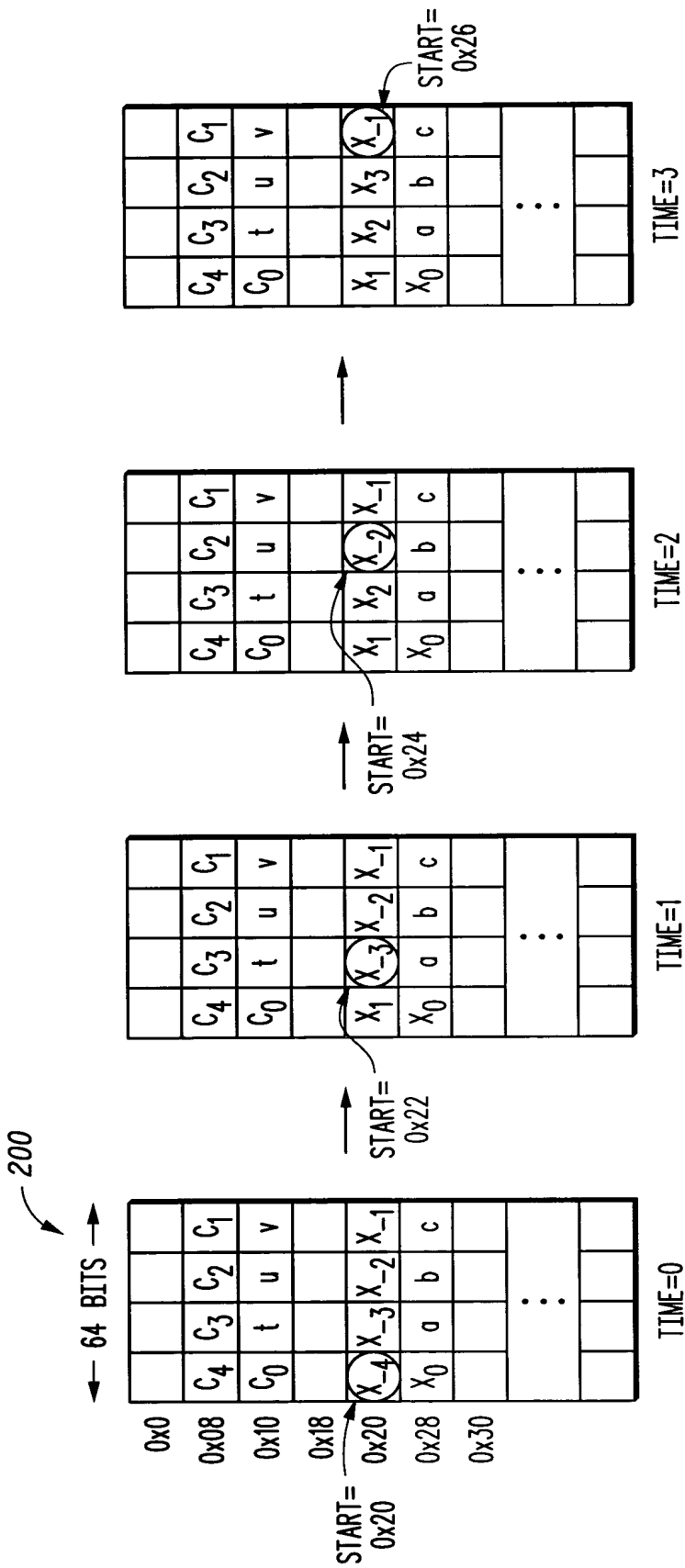


FIG. 18

← 64 BITS →

0x08				R1
0x20				R2
⋮				
C ₄	C ₃	C ₂	C ₁	R6
C ₀	0	0	C ₀	R7
X ₋₄	X ₋₃	X ₋₂	X ₋₁	R8
X ₀	0	0	0	R9
$C_4 \cdot X_{-4} + C_3 \cdot X_{-3} + C_2 \cdot X_{-2} + C_1 \cdot X_{-1}$				R10
$C_0 \cdot X_0 + 0 \cdot 0 + 0 \cdot 0 + 0 \cdot 0$				R11

FIG. 19

← 64 BITS →

0x22				R2
⋮				
C ₄	C ₃	C ₂	C ₁	R6
C ₀	0	0	C ₀	R7
X ₋₃	X ₋₂	X ₋₁	X ₀	R8
X ₁	0	0	0	R9
$C_4 \cdot X_{-3} + C_3 \cdot X_{-2} + C_2 \cdot X_{-1} + C_1 \cdot X_0$				R10
$C_0 \cdot X_1 + 0 \cdot 0 + 0 \cdot 0 + 0 \cdot 0$				R11

FIG. 20

← 64 BITS →

0x24				R2
⋮				
C ₄	C ₃	C ₂	C ₁	R6
C ₀	0	0	C ₀	R7
X ₋₂	X ₋₁	X ₀	X ₁	R8
X ₂	0	0	0	R9
$C_4 \cdot X_{-2} + C_3 \cdot X_{-1} + C_2 \cdot X_0 + C_1 \cdot X_1$				R10
$C_0 \cdot X_2 + 0 \cdot 0 + 0 \cdot 0 + 0 \cdot 0$				R11

FIG. 21

← 64 BITS →

0x26				R2
⋮				
C ₄	C ₃	C ₂	C ₁	R6
C ₀	0	0	C ₀	R7
X ₋₁	X ₀	X ₁	X ₂	R8
X ₃	0	0	0	R9
$C_4 \cdot X_{-1} + C_3 \cdot X_0 + C_2 \cdot X_1 + C_1 \cdot X_2$				R10
$C_0 \cdot X_3 + 0 \cdot 0 + 0 \cdot 0 + 0 \cdot 0$				R11

FIG. 22

9/12

← 64 BITS →

A	B	C	0	R1
K	N	Q	0	R2
				R3
		0x12		R4
		0x54		R5

FIG. 23

← 64 BITS →

D	E	F	0	R1
K	N	Q	0	R2
				R3
		0x12		R4
		0x54		R5
		⋮		
		$A \cdot K + B \cdot N + C \cdot Q$		R10
				R11
				R12

FIG. 24

← 64 BITS →

G	H	I	0	R1
K	N	Q	0	R2
				R3
		0x12		R4
		0x54		R5
		⋮		
		$A \cdot K + B \cdot N + C \cdot Q$		R10
		$D \cdot K + E \cdot N + F \cdot Q$		R11
				R12

FIG. 25

← 64 BITS →

G	H	I	0	R1
L	O	R	0	R2
				R3
		0x12		R4
		0x54		R5
		⋮		
		$A \cdot K + B \cdot N + C \cdot Q$		R10
		$D \cdot K + E \cdot N + F \cdot Q$		R11
		$G \cdot K + H \cdot N + I \cdot Q$		R12

FIG. 26

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10/12

lmvex_skip_once.[s/u].[ms].[ds] rD, rA, rB



FIG. 27

lmvex_cb.[s/u].[ms].[ds] rD, rA, rB

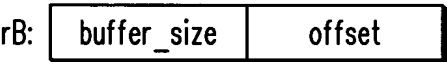


FIG. 28

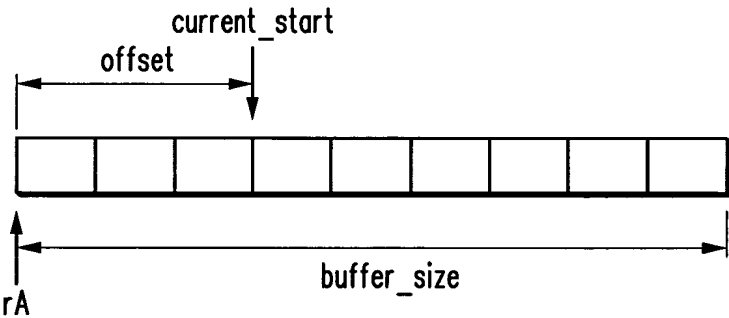


FIG. 29

lstrmvex_cb.[s/u].[ms].[ds] rD, rA, rB

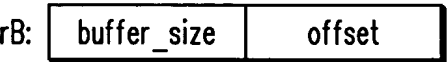


FIG. 30

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11/12

lmvex_fft.[s/u].[ms].[ds] rD, rA, rB

OPCODE	rD	rA	rB	SUBOPCODE
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rB: radix

FIG. 31

stmvex_fft.[s/u].[ms].[ss] rS, rA, rB

OPCODE	rD	rA	rB	SUBOPCODE
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rB: radix

FIG. 32

lmstrmvex_fft.[s/u].[ms].[ds] rD, rA, rB

OPCODE	rD	rA	rB	SUBOPCODE
--------	----	----	----	-----------

rB: radix

FIG. 33

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	0x0			0xE				300
0x0								
0x10				X ₀	X ₁	X ₂	X ₃	
0x20	X ₅	X ₆	X ₇					
0x30								
0x40			Y ₀	Y ₄	Y ₆	Y ₂	Y ₁	
0x50	Y ₃	Y ₇						
0x60								

FIG. 34

X ₀	X ₄	X ₆	X ₂	R1
X ₁	X ₅	X ₃	X ₇	R2
				R3
Y ₀	Y ₁	Y ₂	Y ₃	R4
Y ₄	Y ₅	Y ₆	Y ₇	R5

FIG. 35